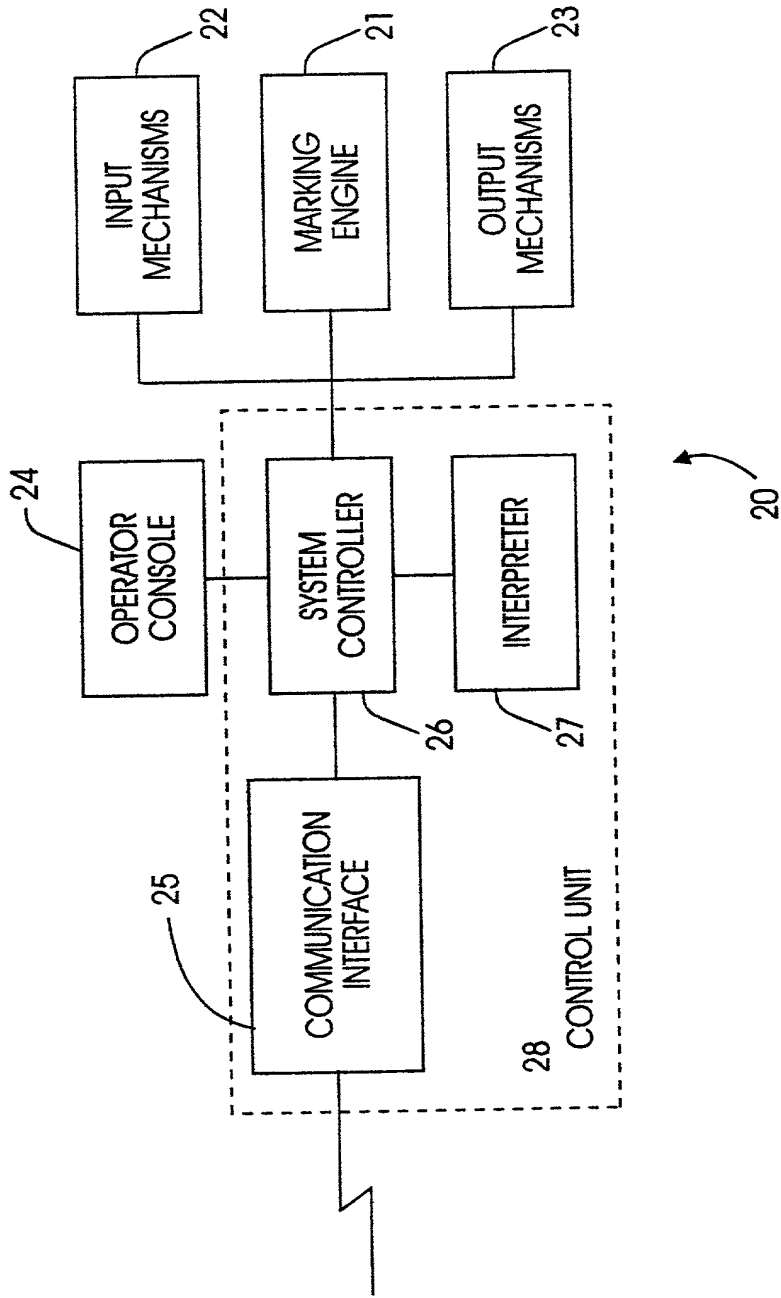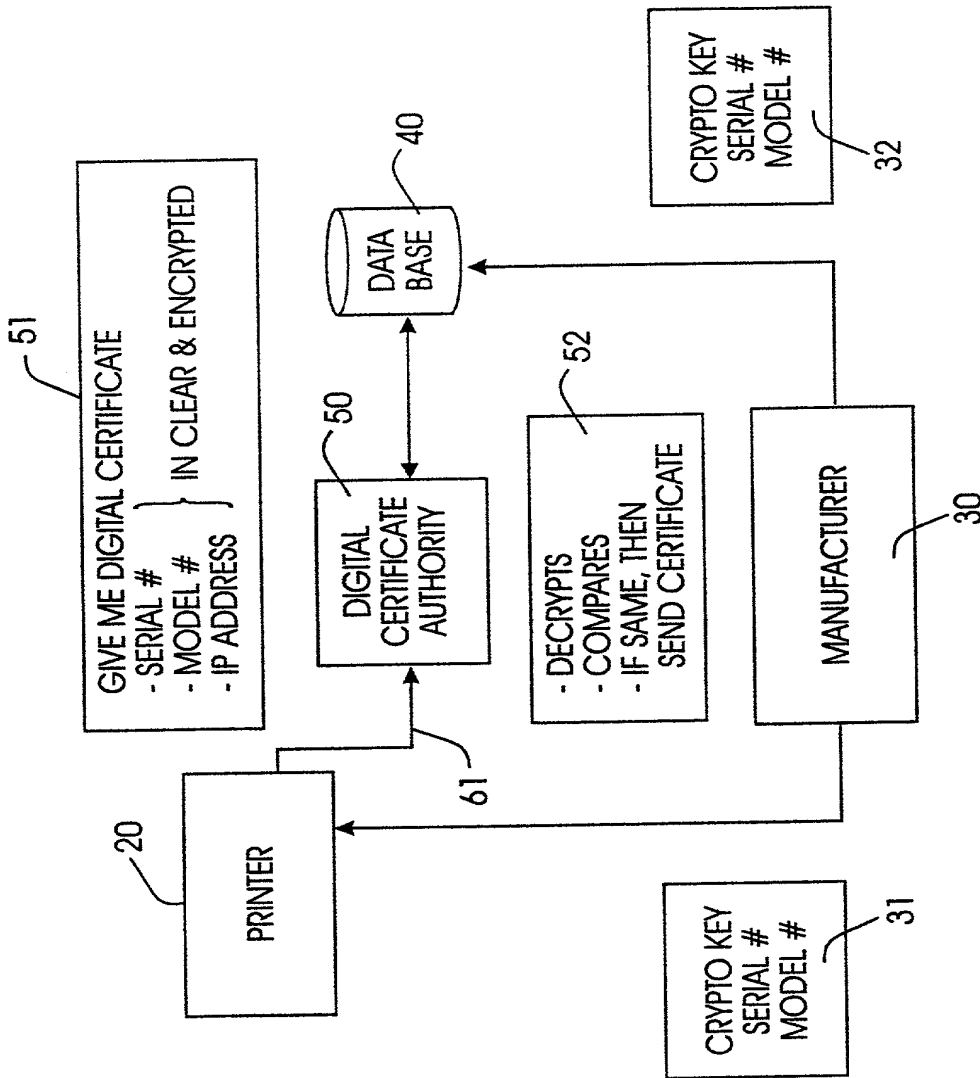| Field	Description	Examples
Subject's distinguished name	A name uniquely identifying the owner of the certificate	C=US, O=MyCompany, OU=Building 003,CN=Printer 5
Issuer's distinguished name	A name uniquely identifying the certificate authority that signed the certificate	C=US, O=IBM, CN=IBMPrinters
Subject's public key	The owner's public key, in this case the printer's public key	512-bit RSA key
Issuer's signature	The certificate authority's digital signature from which the certificate derives its authenticity	RSA encryption with MDS hash
Validity period	Dates between which the certificate is valid	Not before January 1, 1997 Not after January 1, 2007
Serial number	A unique number generated by the certificate authority for administrative purposes	123456

FIG. 1

INPUT
MECHANISMS — 22

MARKING
ENGINE — 21

OUTPUT
MECHANISMS — 23

OPERATOR
CONSOLE — 24

SYSTEM
CONTROLLER

INTERPRETER

26

27

COMMUNICATION
INTERFACE — 25

28 CONTROL UNIT

20

FIG. 2

GIVE ME DIGITAL CERTIFICATE
- SERIAL #
- MODEL # } IN CLEAR & ENCRYPTED
- IP ADDRESS

— 51

— 50

DIGITAL
CERTIFICATE
AUTHORITY

DATA
BASE

— 40

— 52

- DECRYPTS
- COMPARES
- IF SAME, THEN
  SEND CERTIFICATE

CRYPTO KEY
SERIAL #
MODEL #

— 32

— 61

PRINTER

— 20

MANUFACTURER

— 30

CRYPTO KEY
SERIAL #
MODEL #

— 31

FIG. 3